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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/721,389	11/25/2003	Masahiko Hatanaka	MAT-8475US	1655
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/721,389	Applicant(s) HATANAKA ET AL.
	Examiner Duy M. Dang	Art Unit 2624

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 1/29/08.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-15 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-15 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 11/25/03 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date: _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date: _____	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submissions filed on 1/9/08 and 1/29/08 have been entered.
2. Currently, claims 1-15 are pending.

Response to Arguments

3. Applicant's arguments filed 1/9/2008 have been fully considered but they are not persuasive.

In reply to applicant's arguments set forth at page 8 first full paragraph that of "Bracamonte et al. specifies...sample data sizes," the rejection of claims 1-15 under section 102(e) set forth below are incorporated herein. As understood, the compression ratio is defined as a ratio of the input and output in the compression. That means it refers to the ratio of the data to be compressed and data compressed. The compression depicted at 11, 15 and 19 in figure 1 compress first sample data size with scale factor SF₁, second sample data with scale factor SF₂, and ith sample data with scale factor SF_i. Each scale factor is used to quantize its corresponding sample data size by the quantization employed the compression scheme. Furthermore, the parameters used for calculating each SF and CR correspond to claimed "expressions". Specifically, each graphical representation in figures 2d and 4a-4d corresponds to claimed "expression" and this interpretation is consistent with applicant's disclosed figure 3. Thus,

Bracamonte does teach a plurality of sample data sizes and a plurality of expressions. Applicant is reminded that the claims are interpreted in light of the specification, limitations from the specification are not read into the claims and the examiner is not limited to what is not specifically set forth in the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993) and *In re Tanaka et al.* 193 USPQ (CCPA) 1977.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-15 are rejected under 35 U.S.C. 102(e) as being anticipated by Bracamonte et al. (USPN 6,668,089. Art of record, IDS filed on 9/16/2005, referred as Bracamonte hereinafter).

Regarding claim 7 as a representative claim, Bracamonte teaches an image data compressing method (see figure 1) comprising:

compressing image data input at first compression rates to produce the first compressed data (see item 11 of figure 1 comprises compression ratios CR₁ and scaling factor SF₁ and this SF₁ also corresponds to claimed “first compression rate” (note that claimed rate is defined as a Q factor according to line 4 of page 6 of the instant specification) because they refer to Q factors, quantization factors);

providing a plurality of sample data sizes and approximate expressions which correspond to said plurality of sample data sizes, respectively (i.e., the representation shown at column 6 lines 1-10 in together with figures 2a-2d and 4a-4d: note that the zones refer to claimed "plurality of sample data sizes" as well as the compression ratio CR includes claimed "data size" because CR is defined as a ratios of the compressed data size and data size, and these figures illustrate a plurality of CRs so there are a plurality of sample data sized included; and the claimed "approximate expressions" are satisfied by the plurality of slopes m (m_1, m_2, \dots and m_6) or the plurality of straight lines and/or curves illustrated in these figures);

determining a first sample data size from said plurality of sample data sizes which is nearest a data size of the compressed data (see items 40-41 of figure 3 and col. 5 lines 48-58 and discussion above);

selecting a first approximate-expression from said plurality of approximate expressions which corresponds to said first sample data size (see discussion above and col. 5 line 60 to col. 6 line 10: note slopes m (m_1, m_2, \dots and m_6));

changing a compression rate of said first approximate expression (see items 13-14 of figure 1 wherein compression rate (SF₂) is used);

calculating a second sample data size with the changed compressed rate (item 15 of figure 1 refers to a compression scheme that employs a quantization for quantizing data using SF₂ and the data to be quantized refers to claimed "second sample data size");

determining a second compression rate to be the rate corresponding to the calculated second sample data size within a predetermined threshold range of a target data size (see item 14 which calculates SF₂); and

compressing the image data at the second compression rate (see item 15 of figure 1 which compresses image data using SF₂).

Regarding claim 1, the advanced statements as applied to claim 7 above are incorporated herein. Bracamonte further teaches an image data compressing apparatus (see figure 1) comprising:

an image data compressor for compressing image data input thereto at first and second compression rates to produce first and second compressed data, respectively (see compression ratios CR₁ and CR₂ depicted at 11 and 15 of figure 1 and figure 3);

an approximate expression table including a plurality of sample data sizes and a plurality of approximate expressions which correspond to said plurality of sample data size, respectively (i.e., the representation i.e., table, shown at column 6 lines 1-10 in together with figures 2a-2d and 4a-4d: note that the zones refer to claimed "plurality of sample data sizes" as well as the compression ratio CR includes claimed "data size" because CR is defined as a ratios of the compressed data size and data size, and these figures illustrate a plurality of CRs so there are a plurality of sample data sized included; and the claimed "approximate expressions" are satisfied by the plurality of slopes m (m₁, m₂,... and m₆) or the plurality of straight lines and/or curves illustrated in these figures);

an approximate-expression selector for selecting an approximate expression from said plurality of approximate expressions, said first approximate expression corresponding to a first sample data size nearest a data size of said first compressed data among said plurality of sample data sizes, each of said plurality of approximate expressions indicating a change of a data size in

response to a compression rate (see discussion pointed out above and column 5 line 60 to column 7 line 20); and

a compression rate determining unit for determining said second compression rate by
(1) changing a compression rate of said selected approximate expression (see col. 6 lines 1-10 and figures 2b, 2c, 2d, and 4a-4d which comprise a plurality of compression rate SF),
(2) calculating a second sample data size with the changed of compression rate (see SF2 in see col. 6 lines 1-10 and figures 2b, 2c, 2d, and 4a-4d: note the SF2 corresponds to CR2/m₂ so second sample data size can be determined from CR2/m₂) and (3)determining the second compression rate to be the rate corresponding to the second sample data size within a predetermined threshold range of a target data size (see discussion above and item 15 depicted in figure 1).

Regarding claims 2-3 and 8, it is noted these claims further require “polynomial” which is already discussed in the rejection of claims 1 and 7 above.

Regarding claims 4 and 9, Bracamonte further teaches wherein at least one of said plurality of sample data sizes is not greater than a target data size (see figures 2a-2d and 4a-4d. Note CR1 and CR2 in figures 2a-2d are not greater than CR_T and CR_I and CR_V in figures 4a-4d are not greater than CR_T).

Regarding claims 5 and 10, Bracamonte further teaches a memory for storing said input image data (see column 1 lines 15-17); and wherein said image data compressor compresses a portion of said image data stored in said memory at said first compression rate to produce said first compressed data (see item 11 of figure 1 and column 3 lines 1-4. While Bracamonte disclose memory for input image data and partitioning image into blocks, Bracamonte does not

explicitly disclose to store a portion of said input image data. However, such storing a portion of input image data is inherently included in Bracamonte in order for 8x8 pixel blocks of image input data of Bracamonte to be compressed).

Regarding claims 6 and 11, the advanced statements as applied to claims 5 and 10 above are incorporated herein. Bracamonte further teaches a plurality portion of said image data (see 8x8 pixels blocks at column 6 lines 1-4).

Regarding claims 12 and 14, Bracamonte further teaches non-linear approximate expression (see curves represented in figures 4a-4d).

Regarding claims 13 and 15, Bracamonte further teaches exponential polynomial equation (see curves represented in figures 4a-4d) or logarithmic polynomial (see curves represented in figures 4a-4d correspond to non-linear representation which refers to logarithmic polynomial).

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duy M. Dang whose telephone number is 571-272-7389. The examiner can normally be reached on Monday to Friday from 6:00AM to 2:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eileen D. Lillis can be reached on 571-272-6928. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

dmd
4/08

/Duy M Dang/
Primary Examiner, Art Unit 2624